[c8]

bits.

Claims

		Claim	1S
	[c1]		A method of backing up one or more files on a local device onto remote servers
			over a network comprising:
			deriving a first cryptographic key and a second cryptographic key from a
			user-provided passphrase;
			compressing one or more files and adding each of the files to a bundle;
			generating an authentication code for the bundle using the first
			cryptographic key and adding the authentication code to the bundle; and
			encrypting the bundle using the second cryptographic key prior to
			sending the bundle to the remote server.
und tran and then their tent that	[c2]		The invention of claim 1 wherein the bundle is encrypted using a strong block
			cipher.
	[c3]		The invention of claim 1 wherein the authentication code is an HMAC.
The State	[c4]		The invention of claim 1 wherein the cryptographic keys contain at least 128
The state of the s			bits.
	[c5]		A method of restoring one or more files on remote servers to a local device over
	[05]		a network comprising:
			deriving a first cryptographic key and a second cryptographic key from a
			user-provided passphrase;
			decrypting a bundle received from the remote server using the second
			cryptographic key;
			checking an authentication code in the bundle using the first
			cryptographic key; and
			decompressing one or more files from the bundle;
	[c6]		The invention of claim 5 wherein the bundle was encrypted using a strong block
			cipher.
	[c7]		The invention of claim 5 whorein the publication is a second seco
	[[,]		The invention of claim 5 wherein the authentication code is an HMAC.

The invention of claim 5 wherein the cryptographic keys contain at least 128

[c9] A device-readable medium storing program instructions for performing a method of backing up one or more files on a local device onto remote servers over a network, the method comprising the steps of: deriving a first cryptographic key and a second cryptographic key from a user-provided passphrase; compressing one or more files and adding each of the files to a bundle; generating an authentication code for the bundle using the first cryptographic key and adding the authentication code to the bundle; and encrypting the bundle using the second cryptographic key prior to sending the bundle to the remote server. [c10] The invention of claim 9 wherein the bundle is encrypted using a strong block cipher. [c11] The invention of claim 9 wherein the authentication code is an HMAC. [c12] The invention of claim 9 wherein the cryptographic keys contain at least 128 bits. A device-readable medium storing program instructions for performing a [c13] method of restoring one or more files on remote servers to a local device over a network, the method comprising the steps of: deriving a first cryptographic key and a second cryptographic key from a user-provided passphrase; decrypting a bundle received from the remote server using the second cryptographic key; checking an authentication code in the bundle using the first cryptographic key; and decompressing one or more files from the bundle; [c14] The invention of claim 13 wherein the bundle was encrypted using a strong block cipher. [c15] The invention of claim 13 wherein the authentication code is an HMAC. [c16] The invention of claim 13 wherein the cryptographic keys contain at least 128